The foregoing amendments are being made to place the application in condition for

examination. A favorable action on the merits is respectfully solicited.

Attached hereto is a marked-up version of the changes made to the specification and

claims by the current amendment. The attachment is captioned "Version with markings to show

changes made."

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If there are any other fees due in connection with the filing of this paper, please charge

the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under

37 C.F.R. § 1.136 not accounted for above, such an extension is requested and the fee should

also be charged to our Deposit Account.

Respectfully Submitted,

By:

Robert J. Goodell

Reg. No. 41,040

Dated: December 7, 2001

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1-WA/1717105.1

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claim 1 has been amended as follows:

1.(Amended) A method of manufacturing a flash memory device, comprising the steps of:

sequentially forming a tunnel oxide film and a first polysilicon film on a semiconductor substrate:

[and then] etching [said] the first polysilicon film and a [given] first portion region of [said] the tunnel oxide film;

forming a lower oxide film on the [entire structure] semiconductor substrate;

performing a nitrification process to form a nitrogen layer below [said] the lower oxide film;

performing an annealing process using an oxygen gas so that [said] the nitrogen layer is [moved on the] transferred to a surface of [said] the lower oxide film, thus forming a nitride film;

forming [a] <u>an</u> upper oxide film on the [entire surface] <u>semiconductor substrate</u> to form a dielectric film [consisting of said] <u>including the</u> lower oxide film, [said] <u>the</u> nitride film, and [said] <u>the</u> upper oxide film;

sequentially forming a second polysilicon film, a tungsten silicide film, and an anti-reflection film on the [entire structure] semiconductor substrate;

patterning [said] the anti-reflection film, [said] the tungsten silicide film, [said]
the second polysilicon film, and [said] the dielectric film to form a control gate[,]; and
[then] patterning [said] the first polysilicon film and [said] the tunnel oxide film
to form a floating gate.

Claim 2 has been amended as follows:

- 2.(Amended) The method [of manufacturing a flash memory device] according to claim 1, wherein [said] the lower oxide film is formed using DCS gas and one of N_2O [or] and NO gas at [the] a temperature of [810 850] 810-850°C.
- Claim 3 has been amended as follows:
 - 3.(Amended) The method [of manufacturing a flash memory device] according to claim 1, wherein [said] the lower oxide film is formed [in] to a thickness of [35 100] 35-100 Å at [the] a deposition rate of [4 - 10] 4-10 Å/min.

Claim 4 has been amended as follows:

4.(Amended) The method [of manufacturing a flash memory device] according to claim
1, wherein [said] the nitrification process is performed by introducing one of N₂O [or]
and NO of [1-20] 1-20 into [the] a furnace at [the] a temperature of [810-850]
810-850 °C for [10-20] 10-20 minutes, thus forming a nitrogen layer of [3-5] 3-5Å in thickness in [said] the lower oxide film.
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5.(Amended) The method [of manufacturing a flash memory device] according to claim

1, wherein [said] the annealing process using [the] an oxygen gas is performed by

introducing [an] the oxygen gas of [5-20] 5-20 into [the] a furnace at [the] a

temperature of [850 - 950] 850 - 950 °C for [5 - 20] 5-20 minutes.

Claim 6 has been amended as follows:

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6.(Amended) The method [of manufacturing a flash memory device] according to claim

1, wherein $\{said\}$ \underline{the} upper oxide film is formed using DCS gas and $\underline{one\ of}\ N_2O\ \{or\}$ \underline{and}

NO gas at $\frac{\text{[the]}}{2}$ temperature of $\frac{\text{[810-850]}}{2}$ $\frac{\text{[810-850]}}{2}$ °C.

Claim 7 has been amended as follows:

7.(Amended) The method [of manufacturing a flash memory device] according to claim

1, wherein [said] the upper oxide film is formed [in] to a thickness of [35-100]

 $\underline{35-100}$ Å at $\underline{\{the\}}$ $\underline{\underline{a}}$ deposition rate of $\underline{\{4-10\}}$ $\underline{4-10}$ Å/min.

Claim 8 has been amended as follows:

8.(Amended) The method [of manufacturing a flash memory device] according to claim

1, wherein [said] the second polysilicon film is formed in a double structure of a doped

polysilicon film and an undoped polysilicon film.

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Claim 9 has been amended as follows:

9.(Amended) The method [of manufacturing a flash memory device] according to claim

8, wherein $\frac{\text{said}}{\text{the}}$ polysilicon film and $\frac{\text{said}}{\text{the}}$ undoped polysilicon film $\frac{\text{is}}{\text{te}}$

deposited at $\frac{\text{the}}{\underline{a}}$ ratio of $\frac{4:1-7:1}{\underline{4:1-7:1}}$.